

The Evolution of Aluminum Bar Casting, by A.
Zeerleder, 13 PP.

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SLA Tr 873/1955

Sci - Min/Met

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Czempiel, A. and Haase, C.
ON THE QUESTION OF USING AL AS A CABLE-
SHEATHING MATERIAL. 14 Mar 53, 8p. (figs. tables
omitted).
Order from SLA \$1.10

Trans. of Aluminium (Germany) 1939 [v. 21, no. 7]
p. 521-528.

DESCRIPTORS: *Electric cables, Protective coverings,
*Aluminum, Mechanical properties, Manufacturing
methods.

62-18435

I. Czempiel, A.
II. Haase, C.

On the Solubility of Hydrogen in Aluminum and
Magnesium, by P. Rontgen, H. Winterhager, 7 pp.

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S.L.A. Tr No 565/1955

Sci - Minerals/Metals
Mar 1957 CTB/dex

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Experiments on the Use of Solution Spectrum Analysis
for the Determination of Manganese and Magnesium in
Aluminium Alloys, by R Bauer

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Scientific - Min/Metals

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11 pp.

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pp 266-270.

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Sci
Feb 62
Vol III, No 11

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The Spectrographic Determination of Small Amounts
of Zinc in Aluminum and Its Alloys, by Günther Balz,
9 pp.

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S.L.A. Tr 20

EEur - Germany

Scientific - Physics, Minerals/Metals

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The Measurement of the Blackening of Spectral
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EUR - Germany
Scientific - Physics

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Scientific - Physics

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Electrodes for the Spectrographic Analysis of
Light Metals, by H. Moritz, 15 pp.

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1940, pp 421-435.

S.L.A. Tr 115/1956

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Scientific - Physics, Minerals/Metals.

On the Question of the Prevention of
Silicosis by Metallic Aluminum, by Jotten, *1940*

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Contribution to the Hard Chromium Plating of
Aluminum and its Alloys, by A. Beerwald.

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Scientific - Min/~~XXXXXX~~

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Stability of Sodium Aluminate Solutions Between
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S.L.A. Tr 971

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Sci - Metals/Minerals

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On the Suitability of Electrolytically
Polished Specimens for the Metallographic
Investigation of Aluminum and Its Alloys,
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Jun 1941, pp ~~281-284~~.

NACA - N-18639

Scientific - Min/Metals

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Press Effect and Recrystallisation of Duralumin¹ with
Varying Manganese Content, by K. L. Dreyer, H. J.
Seemann

GERMAN, Aluminium, Berlin., 23 (9), 437-445.
Sep 1941.

Aluminium Laboratories, LTD Tr No
B-TM-80-52 OT/197

Scientific - Metallurgy

Capitaine, H.
OPERATING EXPERIENCE WITH A NEW TYPE OF
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LIGHT METALS. [1962] 5p. (figs. omitted).
Order from SLA \$1.10 62-18488

Trans. of reprint from Aluminum (Germany) 1942
[v. 24, no. 2] p. 69-71.

DESCRIPTORS: Furnaces, *Electric furnaces,
Operation, *Induction heating, Low frequency,
Smelting, *Aluminum alloys.

(Metallurgy, TT, v. 9, no. 3)

62-18488

I. Capitaine, H.

Office of Technical Services

Concerning Several Remarkable Differences and Behaviors of the Al-Mn Alloys-Relationship to the Degree of Purity of the Base Metals, by Hans and Neunzig Wolf, Heinrich, 4 pp.

GERMAN, per, Aluminium, Vol XXIV, No 4, 1942, pp 131-140.

SLA Tr 852/1955

Sci - Min/Met

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Full translation.

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Brutcher Tr No 2873

EEur - Germany

Scientific - Aluminum, oxide, method, chemistry

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Geigermüller, 4 pp.

GERMAN, per, Aluminium, Vol XXIV, 1942, p 173.

S.L.A. Tr No 195/1955

Sci - Chemistry
Jan 1957 CTS/dex

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Sci - Minerals/Metals
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in Aluminum Alloys, A. Gotta, 7 pp.

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Sci - Metals/Minerals

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Determination of Fluorine as Lead Chlorofluoride, by W. Kapfenberger, 13 pp.

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Feb 62

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The Melting of Aluminum Alloys in Novel Low
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pp 62-69.

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Sci - Minerals/Metals
Oct 57

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Contribution to the knowledge of the Bayer process,
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S.L.A. Tr 969

Sci - Mineral/Metals

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Acceptance Testing of ~~XXXX~~ Aluminum Alloys With
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7 pp.

by Kurt Matthae

GERMAN, per, Aluminium, Vol XXV, 1943, pp 10⁶-110.

AEC Tr 1775

Scientific - Minerals/Metals
CTS/DEX

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Testing of a Magnet-Inductive Testing Device,
Constructed by Dr. Schrip, For Acceptance
Testing of Light Metals, by E. K. O. Schmidt,
H. Muster, 1 pp.

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GERMAN, per, Aluminium, Vol XXV, 1943, pp 110-112.

AEC Tr 1774

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Scientific - Minerals/Metals
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Structure Investigations in Aluminium Metallurgy,
by A. Schrader, 16 pp.

GERMAN, per, Aluminium, Vol XXV, No 3, Mar 1943,
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SLA 58-487

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Non-Destructive Testing on Electrical Basis, by
F. Foerster, H. Breitfeld, 6 pp.

GERMAN, per, Aluminium, Vol XXV, 1943, pp 130-133.

AEC Tr 1765

Scientific - Minerals/Metals
CTS/DEX

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Gabler, F.
IMPACT EXTRUSION AND COLD FORGING OF
ALUMINUM IN LIGHT ENGINEERING. [1963] 22p
(figs omitted)
Order from SLA \$2.60 TT-64-10756

Trans. of Aluminium (Germany) 1943, v. 25 [no. 5]
p. 194-202.

DESCRIPTORS: Engineering, *Aluminum, Forging,
Cold working, Extrusion, Impact shock.

(Metallurgy--Light Metals, TT, v. 11, no. 11)

TT-64-10756

I. Gabler, F.

Office of Technical Services

The Non-Destructive Testing of Light Metals With
the Aid of a Feeler Coil, by F. Foerster, H.
Breitfeld, 6 pp.

GERMAN, per, Aluminium, Vol XXV, 1943, pp 253-256.

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Scientific - Minerals/Metals
CTS/DEX

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The Cooling of an Ingot in "Water-Casting",
by Walter Roth, 19 pp.

GERMAN, per, Aluminium, Vol XXV, No 7/8, 1943,
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Sci

Apr 61

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Grain Coarsening in Al-Cu-Mg Type Alloy Bars, by
H. Unckel

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Aluminium Laboratories, LTD, Tr No
B-TM-82-52 OT/196

Scientific

Staab, A. and Kiby, R.

A QUICK METHOD FOR THE DETERMINATION OF
ZINC IN ALUMINUM ALLOYS (Eine Schnellmethode
zur Bestimmung von Zink in Aluminiumlegierungen).
[1963] [8p] (foreign text included) 4refs

Order from SLA \$1.10

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Another trans. is available from SLA as 55-855.

(Chemistry--Analytical, TT, v. 11, no. 12)

TT-63-16611

- I. Staab, A.
- II. Kiby, R.

Office of Technical Services

Casting of Magnesium Blocks With Special Consideration
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Rackwitz, 10 pp.

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Scientific - Minerals/Metals
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Testing of the Inductive Magnetic Test Apparatus
"Durokawimeter" designed by Dr. Forster, by
H. Mador, 8 pp - UNCLASSIFIED

GERMAN, per, Aluminium, Vol XXVI, 1944, pp 10-13.

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Scientific - Physics

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On the Weld Crack Sensitivity of Light Alloys, by
H. Mader.

GERMAN, per, Aluminium, Vol XXVI, No 2/3, Feb/Mar
1944, pp 30-32.

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Scientific - Minerals/Metals

May 54 CTS

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Electrolytic Apparatus for Examining Fused Salts
And Electrode Materials in High-pressure Gas
Atmospheres, Bela Ianyi and Jozsef Jakab.
Hungarian, per, Aluminum, 1951, vol.3, no. 2,
pp. 25-28.
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SLA TT-63-20432

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Aug 66

300⁷,612

Powdered Aluminum With High Heat Resistance, by Dr
Ing. H. Irrmann, 13 pp.

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Scientific - Minerals/metals, aluminum, metallurgy

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Determination of Sodium Content in Metallic
Aluminium, by E. Fapp, L. Zombory, J. Endi

HUNGARIAN, per, Aluminium ~~Y~~ ² Bp, Vol XIX, No 10,
Oct 1951, pp 217-220.

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Scientific - Chemistry
CIS/DEX

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Anodized Aluminum, by A. Reutter.

GERMAN, per, Aluminium, Vol XXVIII, No 3, pp 78-80.

Brutcher Trans No 2948

Scientific - Metallurgy, alloys, aluminum, anodizing

Machining of Aluminium and Aluminium Alloys, by
K. Specht,

GERMAN, per, Aluminium, Dusseldorf, Vol XXVIII,
No 4, April 1952, pp 112-115.

Aluminium Lab LTD B-TS-162-55
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Sci - Minerals/Metals

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Die Stamping (Blanking) Technology, by G. Oehler,
24 pp.

GERMAN, ^{blm}aper, Aluminium, Vol XXVIII, No 7/8, Jul/Aug
1952, pp 238-245.

S.L.A. Tr No 458/1955

Sci - Minerals/Metals
Jan 1957 CTS/dex

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Anodic Oxidation by Alternating Current and the Use of a Sulphuric Acid Electrolyte and the Application of the Process for the Permanent Protection of the Surface of Light Metal Wire, by J. Antoni, A. Domonyi, I. Kurovsky, 7 pp.

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Scientific - Min/Metals

Dec 54 CTS/DEX

The Coefficient of Friction Between Aluminium and
Various Other Metals, by H. Kostron, F. Schlager

GERMAN, per, Aluminium, Vol XXVIII, No 10, Oct
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Aluminium Laboratories, Ltd.
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Scientific - Minerals/Metals
CT8/DEX

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Ringless Aluminum Melting Induction Furnace
for Power Supply Frequency, by K. H. Brock-
meier, 35 pp.

GERMAN, per, Aluminum, Vol XXVIII, Nov 1952,
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SLA 57-3252

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The Effect of the Alloying Constituents on the
Mechanical Properties of the Heat Treatable Al-Mg-Si
Type Light Alloys, by A. Benko

~~RESEARCH~~ *[Signature]*
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Aluminium Laboratories, Ltd.
E-TM-118-53 OT/661

Scientific - Minerals/Metals
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A New Method for Polishing and Etching of Metallographic
Specimens of Tungsten and Molybdenum Metal, by T. Millner,
L. Sass. UNCLASSIFIED.

HUNGARIAN, per, Aluminium (Budapest), Vol V, No 10, 1953,
pp 214, 215.

Brutcher Tr No 3281

Scientific - Min/Metals

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The Influence of Various Factors on Earing of
Aluminium Sheet, by G. Siebel, H. Hug.

GERMAN, per, ~~ZEITSCHRIFT~~ Aluminium, Dusseldorf,
Vol XXIX, Nos 1, 2, 1953, pp 51-58.

Aluminium Laboratories, Ltd
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S.A. 656/1955

Scientific - Min/Metals

13; 272

Kapalu-Copper - Aluminium Welding Techniques,
by A. Muhlilinghaug
GERMAN, per, Aluminium, Vol. 29, No. 4, pp. 164-165
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Anodized Patterns on Aluminum, by E. Herrmann, 11 pp.

Full translation.

GERMAN, per, Aluminum, Vol XXIX, No 5, May 1953,
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E. W. Burkart, 7 pp.

GERMAN, per, Aluminium, Vol XXIX, No 5,
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Scientific - Minerals/Metals CTS 68/May 55

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Full translation.

GERMAN, per, Aluminum, Vol XXIX, No 5, May 1953,
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Scientific - Minerals/metals

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Machinability of Light Metals, by W. Spath.

GERMAN, per, Aluminium, Vol XXIX, No 7/8,
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Sci - Min/Mat
Aug 62

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The Chlorination of Aluminum ^AAlloys, by K. E. Mann.

GERMAN, per, Aluminum, No 7-8, Jul-Aug 1953, pp
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Replacement of Copper by Aluminum in Bus Conductors
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Scientific - ~~Electrolytic plants~~
Minerals/metals

Effect of Common Refrigerants on Aluminum, by
H. Kessler, 7 pp.

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S.L.A. No 224/1956

Scientific - Minerals/metals

The Behaviour of Commercial Purity and High Purity Aluminum in Boiling Water. (Production of Colourless Boehmite Films. Investigation of Their Characteristics. Application for Corrosion Protection, Particularly to Prevent Blackening by Well HX Water, by D. Altenpohl, 32 pp.

GERMAN, per, Aluminium, Vol XXIX, No 9, Sep 1953, pp 361-370.

S.L.A. Tr 1891

Sci - Engineering, aluminium
May 57

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Practical Experiences With Continuous D. C.
Casting of Light-Metal Alloys, by K. E. Mann,

per,
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Scientific - Min/Metals Apr
May 55 CTS

Eddy-Current Method for the Non-Destructive Testing
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Investigations on the Strength of Glued Light
Metal Joints, by P. Brenner, A. Matting.

GERMAN, per, Aluminium, Vol XXX, No 1, 1954,
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Sci - Min/Met

Jun 61

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Comments on High Conductivity Aluminum Standards,
by A. Loeschmann, 11 pp.

GERMAN, per, Aluminium, Vol XXX, Mar 1954, pp 95-98.

SLA Tr 2318

Sci - Minerals/Metals
Oct 57

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The Design of Aluminum High Current Bus Conductors
in Electrolytic Plants, by K. Kalsik, 7 pp.

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S.I.A. No 346/1956

Scientific - Engineering
Minerals/metals

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Magnesium (or Zinc) Determination in Aluminium
Alloys by Means of High Vacuum, by P. Urech,
R. Gulsberger, 1 5 pp.

GERMAN, per, Aluminium, Apr 1954, pp 163, 164.

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Sci - Minerals/Metals
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The Aluminum Body of the New Dyna-Panhard
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FRENCH, per, Aluminium, Vol XXX, No 5, 1954,
pp 183-194.

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Scientific - Minerals/Metals

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Light Metal Tote Boxes, by K. Muschard, 11 pp.

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SLA Tr 1969

Sci - Eng
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On the Liability of Aluminium-Base Materials
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GERMAN, per, Aluminium, Vol 30, No 6, 1954,
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Sci -

Jul 67

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The Adhesion of Paints to Aluminum, by K. Brookman,
14 pp.

HUNGARIAN, no per, Aluminium, Vol XXX, Jul 1954,
pp 279-283.

S.L.A, No 296/1956

Scientific - Minerals/metals 34, 330

Low-Frequency Heating of Aluminum Billets, by
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GERMAN, per, Aluminium, Vol XXX, No 7, 1954,
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Brutcher Tr 3478
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Scientific - Min/Metals

Jun 55 CTS

Aluminium Pistons in Motor Vehicle Cylinders, 22 pp.
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SLA 2723

Sci - Engr

Feb 58

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Eddy Current Methods for Nondestructive Testing
of Metallic Materials, by F. Foerster.
GERMAN, per, Aluminum, Vol XXX, No 12, 1954,
pp 512-516.
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Sci-~~RMX~~ M/M
Jul 65

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The Economics of Aluminium Cables, ~~box~~ 4 pp.

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Sci - Min/Metals
Jul 57

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Phosphatising and Chromating New Surface Treatment Methods for Aluminium and its Alloys, by H. Keller.

GERMAN, per, Aluminium, Vol XXXI, No 1, 1955
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T.I.L. T.4531 35,712

Sci - Minerals/Metals, Chemistry

Jun 1956

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Organic Dyes on Anodically Oxidized Aluminium,
by C. Th. Speiser, 11 pp.

GERMAN, per, Aluminium, Vol XXXI, Jan 1955, pp 8, 9.

SLA 2726

Sci - Chemistry
Oct 57

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The Use of Bohmite Layers for Protection
Against Corrosion of Pure Aluminium, Refined
Aluminium and Some Alloys Resistant to
Corrosion, by D. Altenpohl, 27 pp.

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pp 10-14; No 2, pp 62-69.

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Sci - Minerals/Metals,

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Investigations and Studies on Metal Bonding
Agents, by G. Kaliska.

GERMAN, per, Aluminium, Vol XXXI, No 4,
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Sci - Min/Met
Aug 62

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Klopfert, A.
NEW METHODS OF FLASH-BUTT WELDING OF
ALUMINUM ALLOYS. [1962] 10p. (tables, figs. refs.
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Order from SLA \$1.10

62-16957

Trans. of Aluminium (Germany) 1955, v. 31, no. 6,
p. 260-266.

DESCRIPTORS: *Aluminum alloys, *Welding, *Flash
welds, Welded joints, *Electric welding, Transparent
panels

(Metallurgy, TT, v. 9, no. 1)

62-16957

1. Flash butt welding machine
1. Klopfert, A.

Office of Technical Services

New Methods of Flash-Butt Welding of Aluminum
Alloys, by A. Klopfert.

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Sci - M/M
May 63

Kaliske, G.
STUDIES ON ADHESIVE BONDING OF METALS
[PT. II]. 26 Mar 56, 9p. (figs. refs. omitted).
Order from SLA \$1.10 62-18339

Trans. of Aluminium (West Germany) 1955, v. 31
[no. 6] p. 275-281.

DESCRIPTORS: *Metals, *Bonding, *Adhesives,
Bonded joints, Cements, Tensile properties, Stresses,
Corrosion, Fatigue (Mechanics), Sheets, Metal plates.

The article affords a survey of strength research of
bonded metal joints, based on a thorough review of the
pertinent literature. Furthermore, a series of ex-
perimental results dealing with cemented metal joints
has been discussed. Thus influence of overlap ratio,
 $\sigma_{0.2}$ limit of the sheet metal material, thickness
of sheet, nature of surface of sheet metal, and width of
(Materials--Adhesives, TT, v. 10, no. 3) (over)

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I. Kaliske, G.

Office of Technical Services

Investigation Concerning Recrystallization
Behavior of Aluminum Alloys After Hot and Cold
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GERMAN, per, ^mAluminium, Vol XXXI, No 7/8,
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SLA 57-2546

Sci

Aug 58

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Eversheim, P.
INVESTIGATIONS ON THE ELECTRICAL CONDUCTIVITY OF ALUMINUM. [1962] 5p. (figs. omitted)
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Order from SLA \$1.10

62-16994

Trans. of Aluminium (Germany) 1955 [v. 31, no. 7/8]
p. 338-341.

DESCRIPTORS: *Aluminum, *Electrical conductance.

(Metallurgy--Light Metals, TT, v. 9, no. 1)

62-16994

I. Eversheim, P.

Office of Technical Services

Calculation of Deformation Forces in the Extrusion
of Light Alloy Sections, by H. Hornauer.

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GERMAN, per, Aluminium, Vol XXXII, 1956,
pp 350-357.

DSIR/31431/CT

Sol - Min/Mat

Sep 58

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Treatment of Melts in the Casting of
Aluminium Ingots, by A. Roth,

GERMAN, per, Aluminium (German), Vol XXXI,
No 10, 1955, pp 484-489, Ref: C-2111.

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Aug 58

69, 865

Why Aluminium Bearing?, by A. Buske, F. W. Rabenau,
9 pp.

GERMAN, no per, ~~Al~~ Aluminium, Vol XXXI, No 10,
1955, pp 493-498.

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Sci - Min/metals
Mar 57 CTS/dex

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Flame-Sprayed Light Metal Bearings, by G. Vogelpohl,
et al.

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